

FLOOD INSURANCE STUDY

GARFIELD HEIGHTS

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PREPARED FOR THE FEDERAL INSURANCE ADMINISTRATION

BY THE

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207

MAY 1971

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FLOOD INSURANCE STUDY

GARFIELD HEIGHTS, OHIO

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FLOOD INSURANCE STUDY GARFIELD HEIGHTS, OHIO

1. AUTHORITY FOR STUDY

The second secon

Administration, U.S. Department of Housing and Urban Development, in accordance with the National Flood Insurance Act, Public Law 90-448, dated 1 August 1968, and subsequent criteria. This study provides data required for a Type-10 study in Garfield Heights, Ohio. Flood insurance rates for Garfield Heights will be developed, using data contained in this report, by the Federal Insurance Administration. Authority for the Buffalo District to prepare this study is provided by letter from the Office of the Chief of Engineers, ENGCW-PF, subject: Type-10 Flood Insurance Studies, dated 23 December 1970.

2. FINANCING OF STUDY

This study was financed by the Federal Insurance Administration by reimbursement of funds to the Corps of Engineers (Inter-Agency Agreement (IAA) - H - 8 - 71, Project Order No. 8).

3. DESCRIPTION OF THE AREA

Garfield Heights is an incorporated city within Cuyahoga County.

The City encompasses an area of approximately four square miles and has a population of about 41,500 people. Mill Creek, Wolf Creek, Andover Creek and their tributaries provide draisage for most of the city. The City has a history of periodic flooding from these streams and also significant flooding from local runoff accumulation and ponding which enters into residences through sewers. Some measures have been taken by the city government to alleviate the various flood problems by providing a system of open and subsurface drains. However, these measures have only a partial effect on the local runoff that would be produced during the 100- and 500-year floods. Hilly terrain, lack of a complete drainage system, a combined storm and sanitary sewer system in some locations, local restrictive obstructions, such as walls and lengthy culverts, are the main reasons for the flooding problems. The best method to prevent flood damage to future development in the study area would be to restrict first floor elevations to above flood levels and to develop a system of separate sanitary and storm sewers.

4. DESCRIPTION OF WORK

The work performed in producing the information and data contained in this report is in accordance with the criteria set forth in the "Guidelines for Flood Insurance Studies" published by the Corps of Engineers in January 1970 and subsequent directives.

- a. Hydrologic Studies The frequency of flood stages for the study area was developed from discharge frequency relationships based on hydrologic studies by the Corps of Engineers.
- b. Structure and Content Classification Symbol designation and procedures used in this study are in accordance with those recommended by the Federal Insurance Administration. These designations are listed in Exhibit 1.
- c. Depth Damage Relationship Development Depth-damage relationships were developed by determining average house criteria for the various structure and content designations considered as representative of the study area. Content and structural damage were estimated for the various levels of flooding. Damage estimates were based on observed and computed damage information already on file in the Buffalo District Office. Exhibits 2 through 16 show the depth-damage relationships in both tabular and graphical form.
- d. Elevation-Frequency Relationship Development Utilizing hydrogic data, U.S. Geological Survey maps, Cuyahoga County, Ohio, Sanitary Engineering Department topographic maps and field investigations elevation-frequency relationships were determined for seven index points on Mill Creek and five index points on

wolf Creek. This information was plotted as a smooth curve at each index point as shown on Exhibits 17 through 28. Also shown on these exhibits is the flood hazard factor which most closely resembles each elevation frequency curve as shown in the Federal Insurance Administration publication dated September 1970. A profile indicated the 500-year flood, Base Flood, 10-year flood and the approximate ground elevations for Mill Creek and Wolf Creek are shown on plates 1 through 3.

e. Reaches and Zones - The flood zones were delineated by first determining the overflow limits for the desired flood and then extending the zone to the higher verifiable line, such as a street or buff line, when possible. When physical boundaries were not available the zone limit is dimensioned from the nearest physical location. The study area consists primarily of an "A" zone, which is subject to flooding by the Base Flood. A "B" zone, which is the area subject to flooding by the 500-year flood but not the base flood, is not shown on the zone maps as the horizontal distance is not significant. The area in the "C" zone shown does not have an apparent flood problem. The "CB" zones shown do have apparent flood problems but a flood hazard factor was not determined. The zone maps for Garfield Heights are shown on plates 4 through 6.

EXHIBIT 1

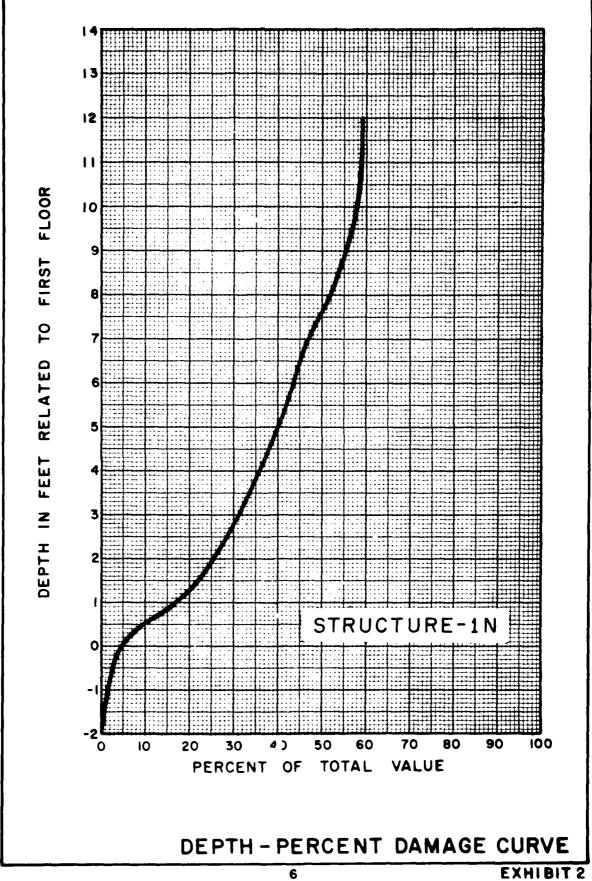
CLASSES OF STRUCTURES AND CONTENTS

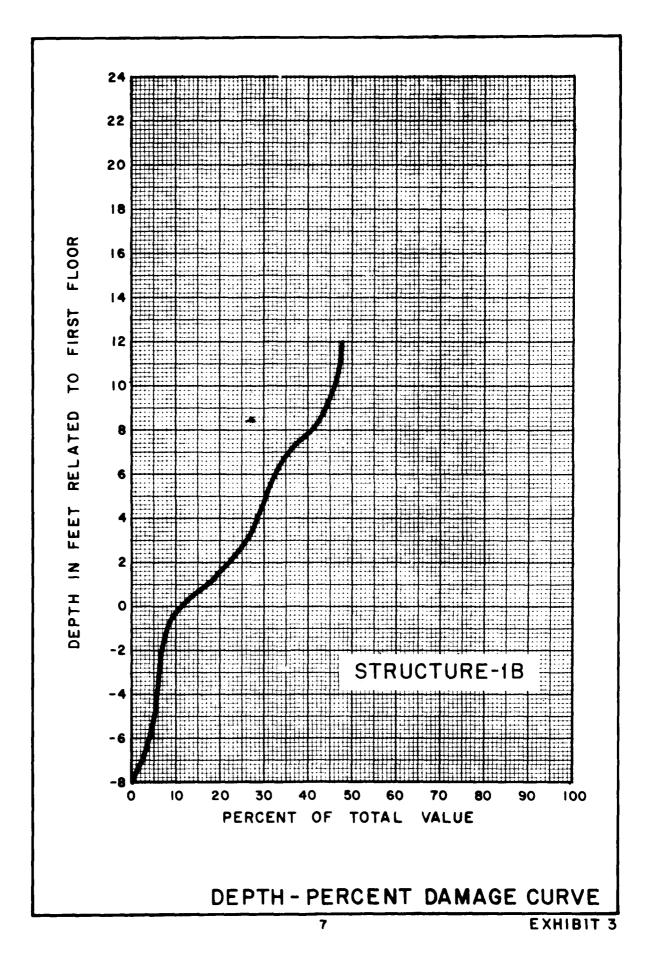
Class of Structure Designations

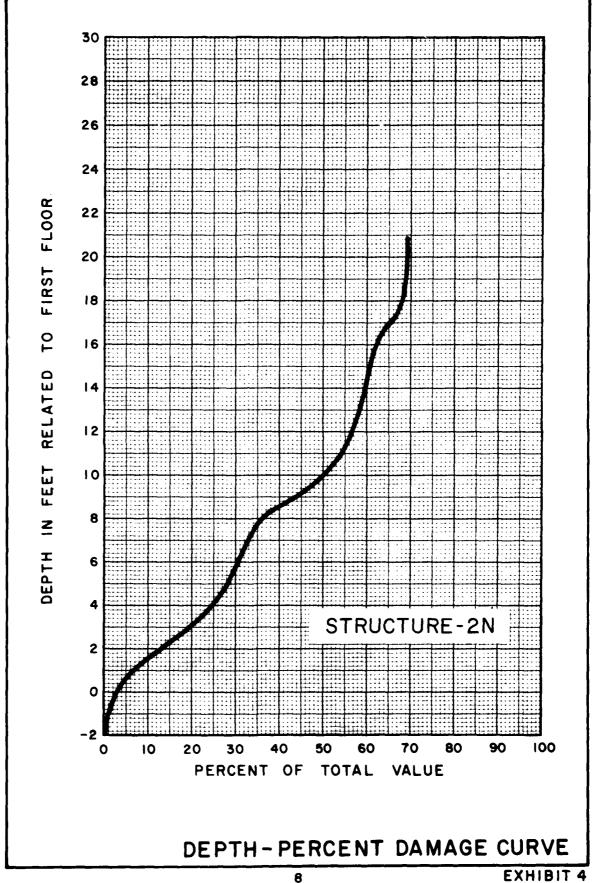
-4 Families	Basement
(One Story	B (Basement)
(Two Stories)	N (No Basement)
(Split Level)	
(Mobile home on foundation)	

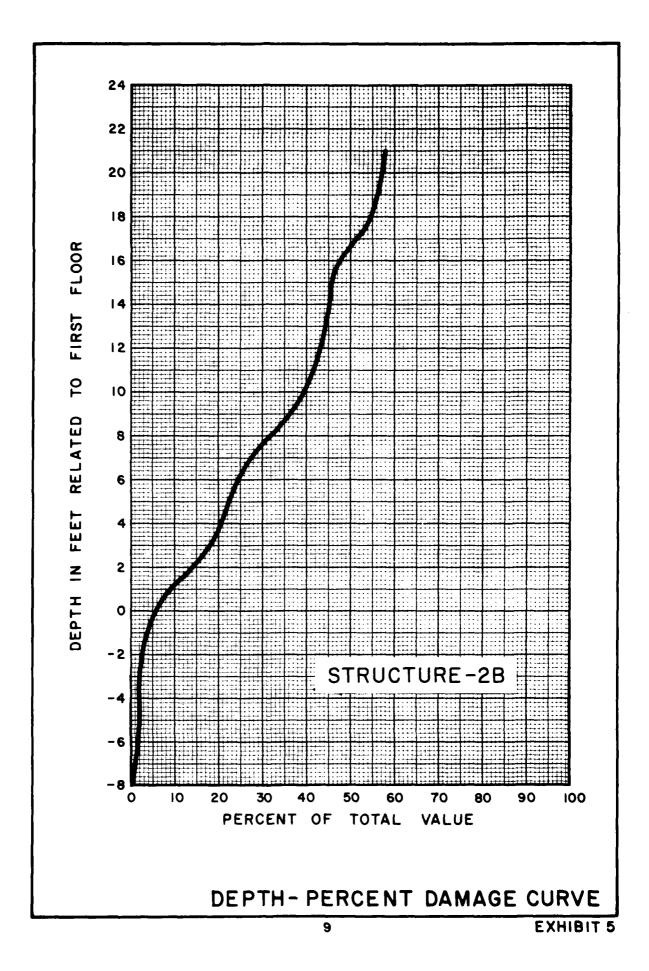
CLASS OF CONTENTS DESIGNATION

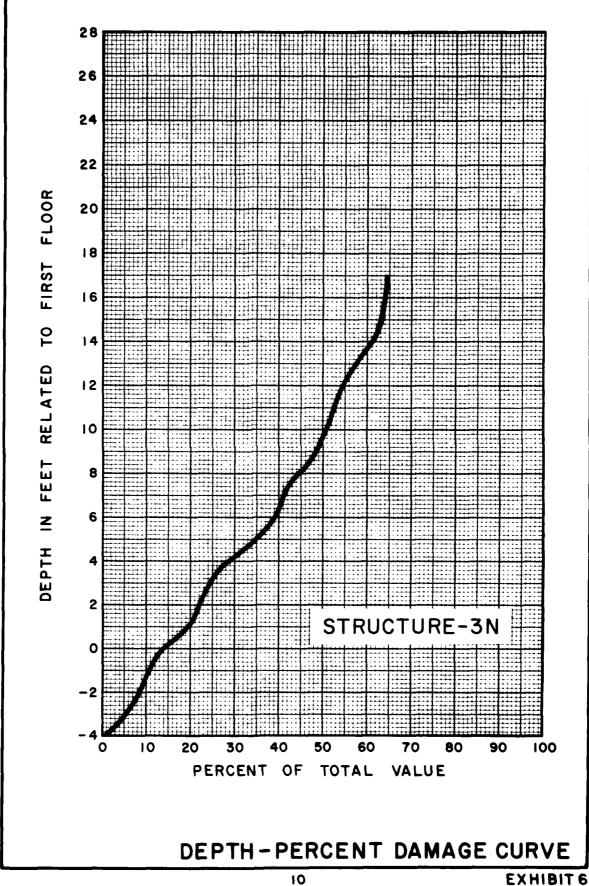
- F (All on first floor)
- S (All on second floor)
- FS (On first and second floor)
 - B (All in basement)
- BF (Basement and first floor)
- BFS (Basement, first and second floor)
- TN (Split level without basement)
- TB (Split level with basement)
- M (Mobile home on foundation)

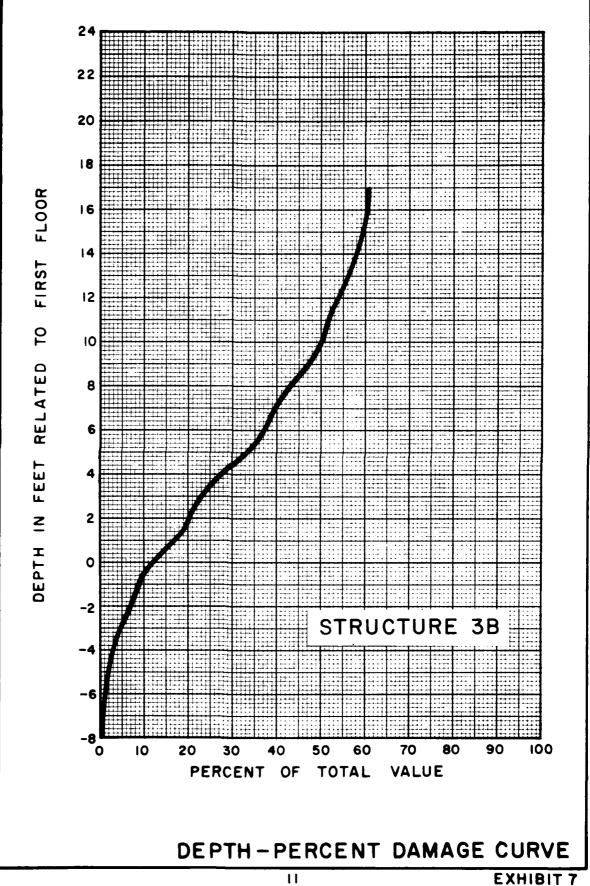


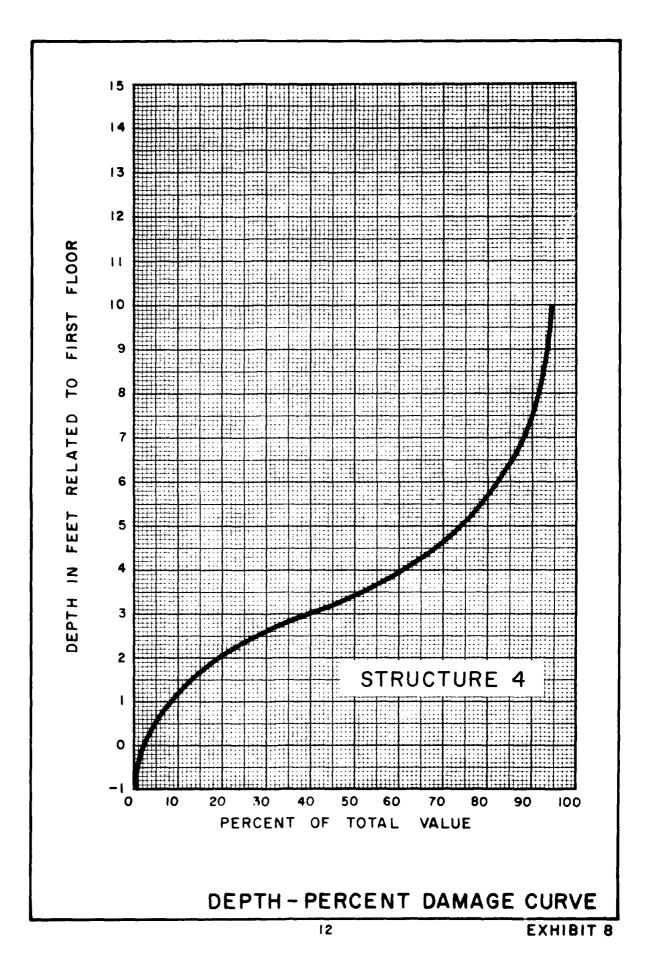


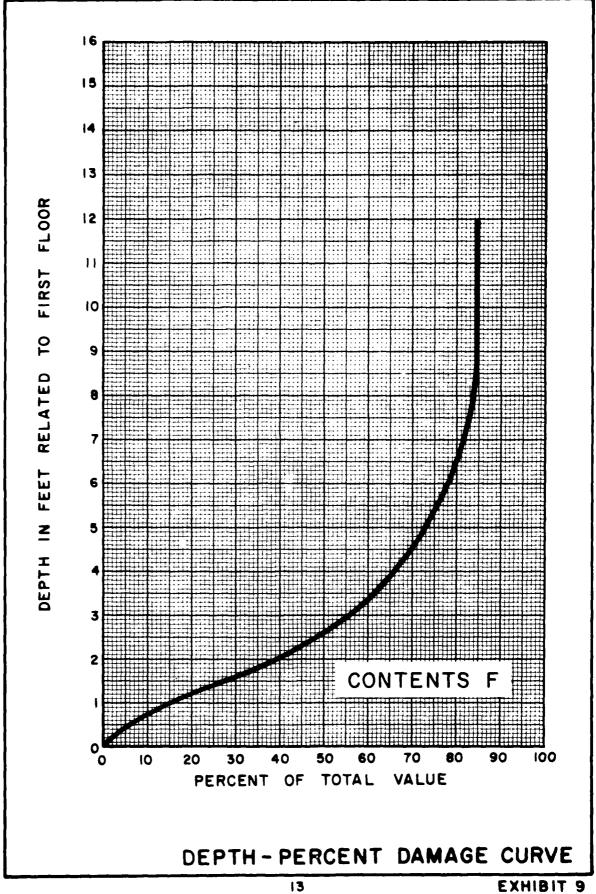


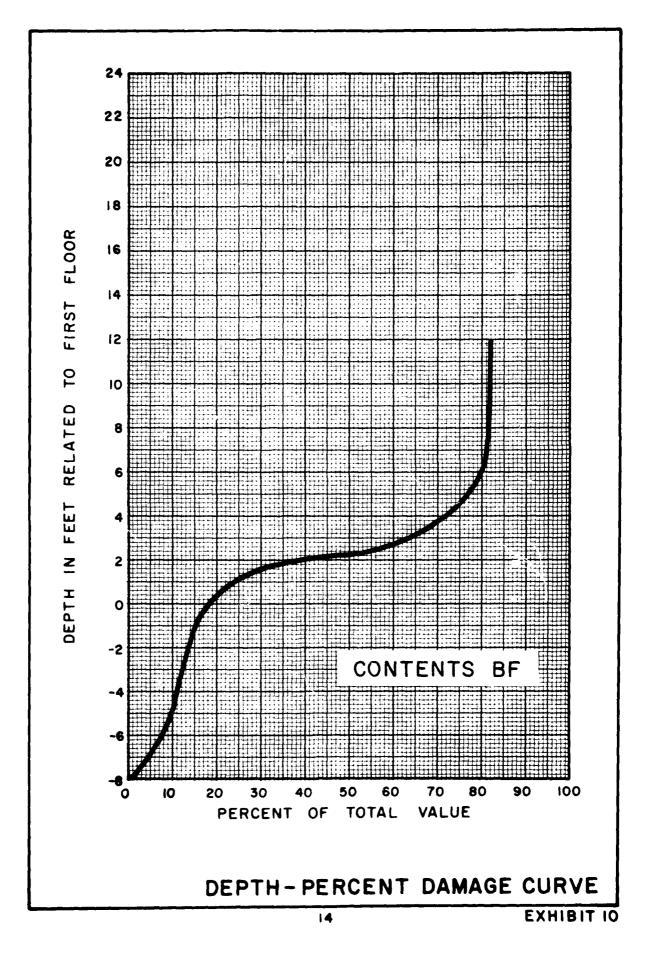


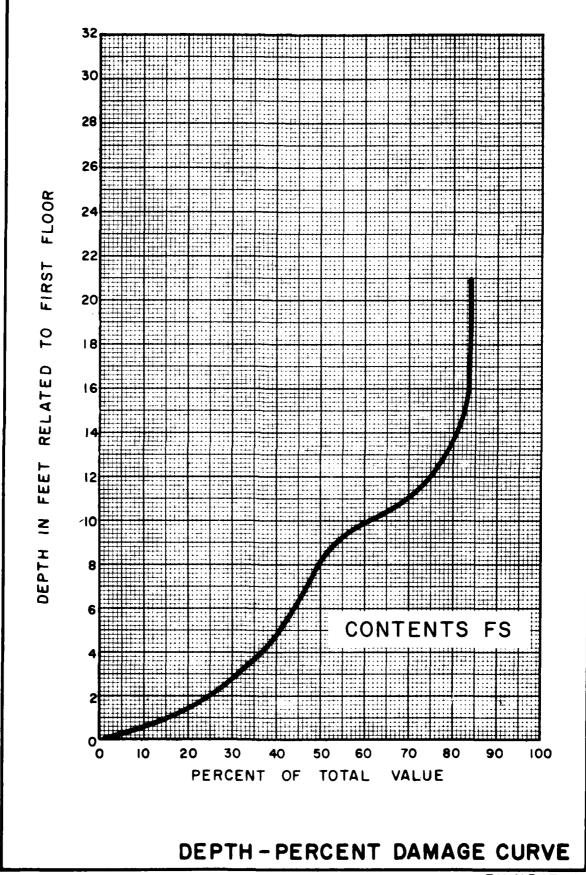


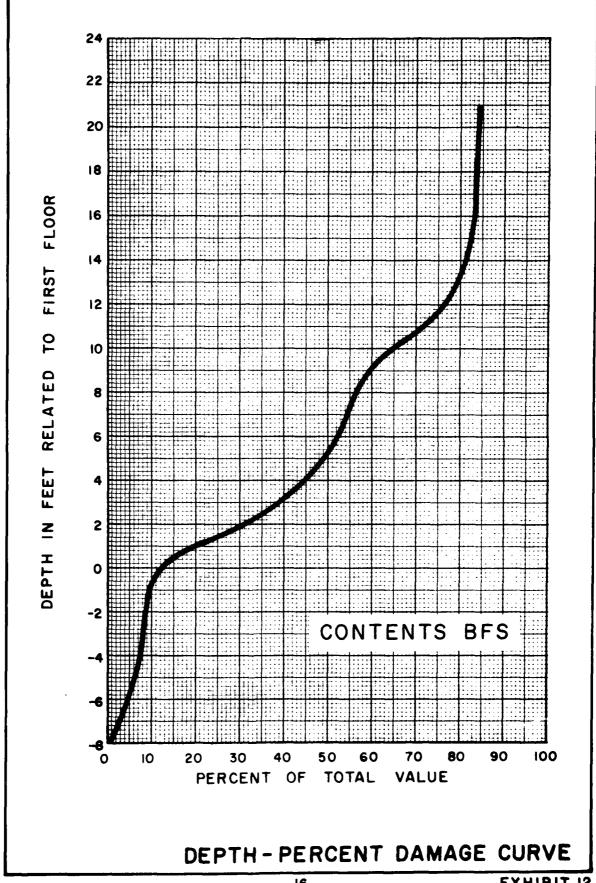


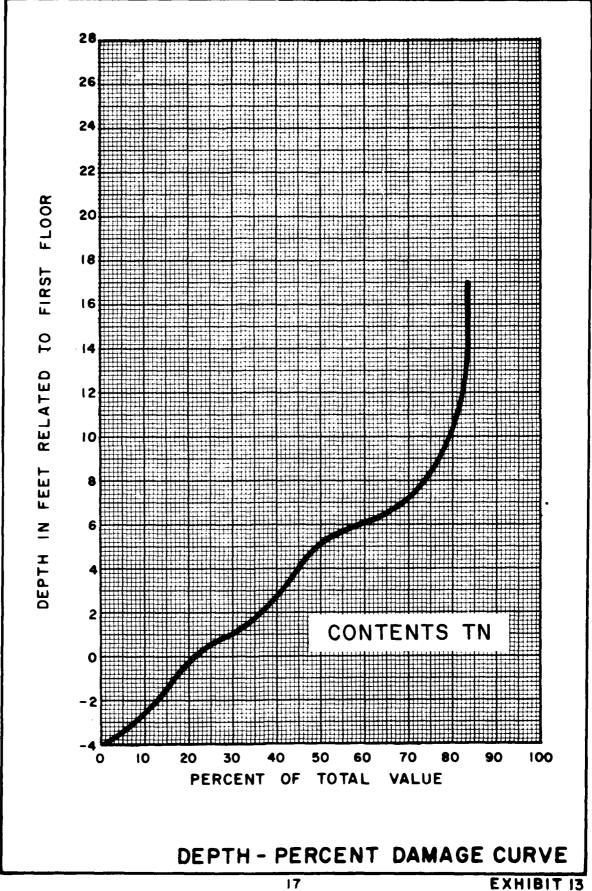


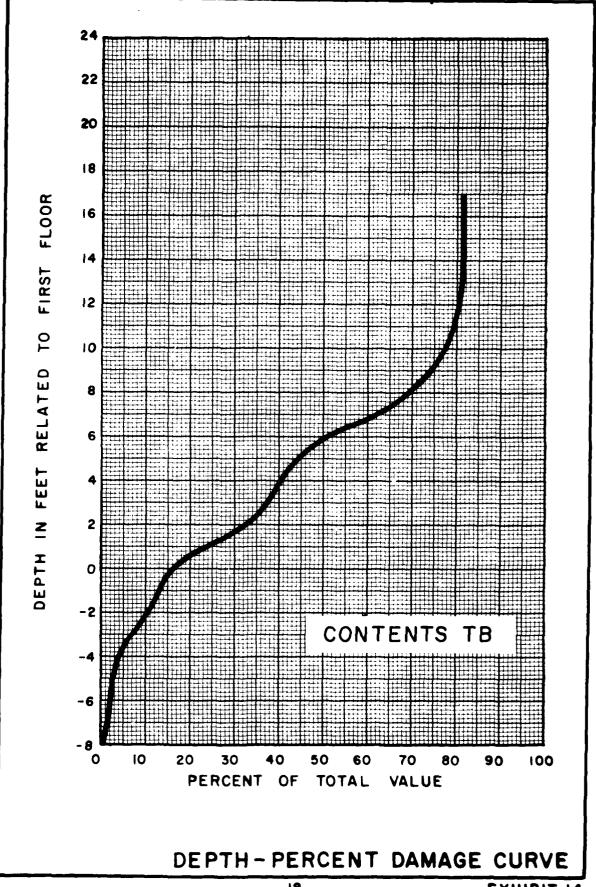












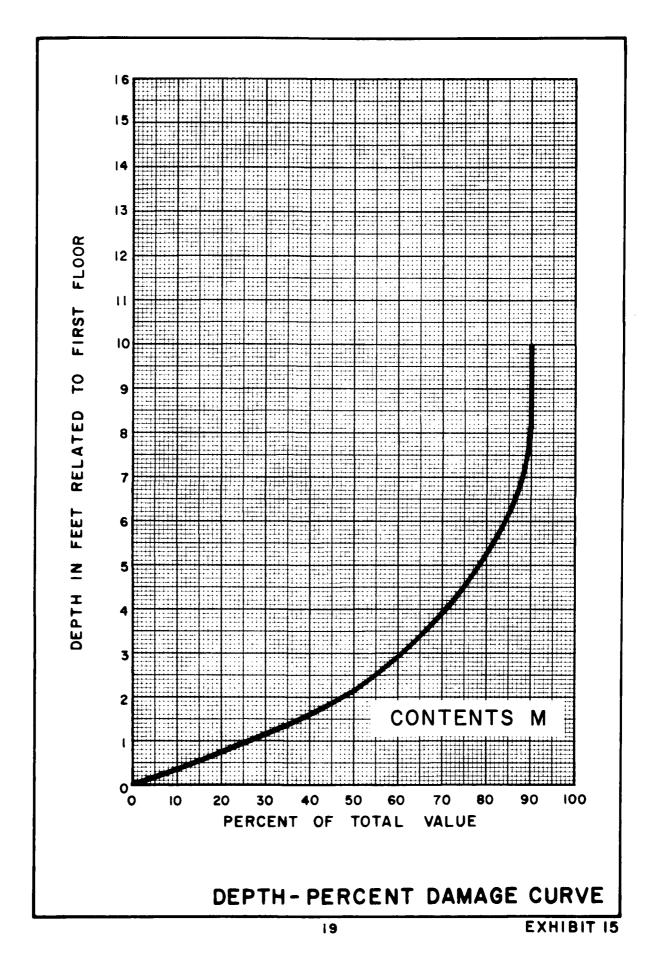


EXHIBIT 16

DEPTH-PERCENT DAMAGE DATA

STRUCTURE

Depth	h <u>CLASS</u>						
in feet	1N	1B	2N	2B	3N	3B	4
-8.0		0.0		0.0		0.0	
-7.5		1.1		0.4		0.4	
-7.0		2.0		0.8		0.8	
-6.5		2.8		1.0		1.0	
-6.0		3.6		1.2		1.2	
-5.5 -5.0		4.2 4.8		1.3		1.4	
-4.5		5.2		1.5 1.7		1.6 1.9	
-4.0		5.6		1.9	0.0	2.5	
-3.5		5.9		2.0	3.8	3.5	
-3.0		6.2		2.1	5.7	4.8	
-2.5		6.5		2.2	7.1	5.8	
-2.0	0.0	6.8	0.0	2.5	8.2	6.3	
-1.5	0.8	7.0	0.3	3.0	9.1	7.0	
-1.0	1.4	7.5	1.0	3.7	10.1	8.0	0.0
-0.5	2.5	8.3	1.9	4.6	11.4	9.4	0.7
0.0	4.3	10.0	3.0	5.9	13.5	11.7	2.3
0.5	9.1	13.1	4.8	7.5	17.1	14.5	4.8
1.0	17.0	17.0	6.9	9.6	19.3	17.1	8.2
1.5	22.0	20.0	9.5	11.9	20.9	18.9	13.0
2.0 2.5	25.7 28.8	22.3 24.2	13.0	14.3	22.0	20.2	19.3
3.0	31.6	24.2 25.8	16.6 19.9	16.6 18.3	23.1 24.3	21.4	28.0
3.5	34.0	27.2	22.3	19.6	24.3 25.6	22.6 24.3	40.5 52.0
4.0	36.3	28.5	24.5	20.7	27.8	26.9	61.0
4.5	38.2	29.7	26.3	21.7	31.5	30.2	68.3
5.0	40.2	30.7	28.0	22.5	34.8	33.1	74.0
5.5	42.0	31.7	29.2	23.5	37.0	35.2	78.7
6.0	43.7	32.8	30.5	24.5	39.0	36.8	82.5
6.5	45.2	34.1	31.5	25.8	40.3	38.2	85.5
7.0	46.8	35.7	32.5	27.4	41.4	39.5	88.0
7.5	48.9	37.9	33.7	29.3	42.4	40.6	90.0
8.0	51.7	40.7	35.8	31.8	44.6	42.7	91.6
8.5	54.0	42.7	39.0	34.1	47.1	45.2	92.7
9.0 9.5	55.7 56.9	44.2 45.3	43.0 47.1	36.5	48.8	47.6	93.5
10.0	57.9	45.3 46.1	50.2	38.3 39.7	50.0 50.8	49.0	93.9
10.5	58.4	46.8	52.6	40.8	51.6	50.0 50.8	94.0
11.0	58.9	47.3	54.2	41.8	52.3	51.5	
11.5	59.0	47.8	55.5	42.6	53.1	52.2	
12.0	59.0	48.0	56.6	43.2	54.0	53.0	
12.5		-	57.4	43.9	55.4	54.0	
13.0			58.3	44.3	57.3	55.6	
13.5			59.0	44.8	59.6	57.0	
14.0			59.5	45.1	61.2	58.0	
14.5			60.0	45.5	62.3	58.7	
15.0			60.5	45.9	63.2	59.3	
15.5			61.2	46.4	63.8	59.7	

EXHIBIT 16 (Con't) DEPTH-PERCENT DAMAGE DATA

STRUCTURE

Depth			CLAS	<u>ss</u>			
in feet	1N	1B	2N	23	3N	3B	4
16.0			62.1	47.3	64.2	60.0	
16.5			63.3	49.0	64.3	60.3	
17.0			65.0	51.3	64.4	60.5	
17.5			67.0	53.2			
18.0			68.4	54.7			
18.5			68.8	55.7			
19.0			69.0	56.3			
19.5			69.1	56.9			
20.0			69.2	57.2			
20.5			69.3	57.6			
21.0			69.4	57.8			

EXHIBIT 16 (Con't) DEPTH-PERCENT DAMAGE DATA

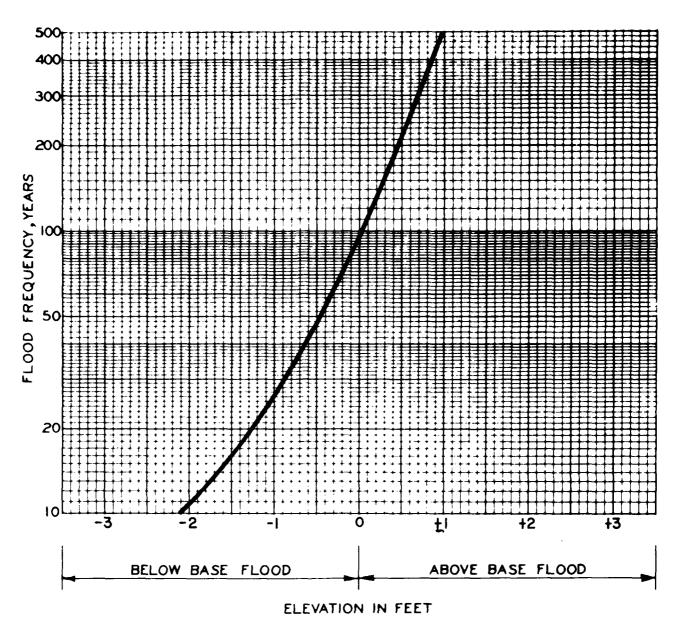
CONTENTS

Depth in feet	F	BF	FS	CLASS BFS	TN	тв	<u>M</u>
-8.0		0.0		0.0		0.0	
-7.5		2.8		1.7		0.9	
-7.0		4.8		2.9		1.3	
-6.5		6.3		3.9		1.6	
-6.0		7.7		4.7		1.9	
-5.5		8.8		5.3		2.0	
-5.0		9.8		6.0		2.1	
-4.5		10.7		6.5		2.7	
-4.0		11.4		7.0	0.0	3.6	
-3.5		12.2		7.5	5.2	5.2	
-3.0		12.9		8.0	8.8	7.2	
-2.5		13.3		8.4	11.3	9.0	
-2.0		14.0		8.8	13.3	10.7	
-1.5		14.7		9.2	15.0	12.0	
-1.0		15.7		9.7	16.8	13.0	
-0.5		17.0		10.2	18.5	14.0	
0.0	0.0	18.8	0.0	12.0	20.7	15.3	0.0
0.5	6.0	21.0	9.0	15.0	24.2	18.2	13.5
1.0	15.0	24.1	15.5	19.5	29.5	23.7	26.0
1.5	28.5	29.0	21.0	25.5	34.2	29.0	37.0
2.0	40.0	43.5	25.3	31.0	37.3	32.9	46.5
2.5	48.7	55.2	29.0	35.3	39.6	35.3	54.3
3.0	55.7	62.5	32.0	39.0	41.3	37.3	61.0 66.3
3.5	61.2	67.6	34.5	42.2	43.0	39.0 40.6	71.0
4.0	65.9	71.5	36.9	45.1 47.4	44.7 46.6	40.8	74.9
4.5	69.5	74.4	39.0	47.4	48.9	44.3	78.2
5.0	72.8	77.0 78.7	40.8 42.5	51.0	52.6	47.0	81.2
5.5 6.0	75.5 77.8	80.0	44.2	52.3	59.1	51.0	83.6
6.5	79.6	80.9	45.7	53.4	64.9	56.0	85.7
7.0	81.1	81.3	47.2	54.5	69.0	61.3	87.6
7.5	82.4	81.6	48.6	55.4	72.0	65.5	89.0
8.0	83.3	81.7	50.0	56.4	74.3	69.0	89.8
8.5	83.9	81.8	51.5	57.7	76.1	71.9	89.9
9.0	84.0	81.9	53.6	59.3	77.4	74.0	89.9
9.5	84.1	81.9	56.5	61.5	78.5	75.6	89.9
10.0	84.2	82.0	61.5	64.9	79.6	77.0	89.9
10.5	84.3	82.0	66.5	68.5	80.3	78.1	

EXHIBIT 16 (Con't) DEPTH-PERCENT DAMAGE DATA

CONTENTS

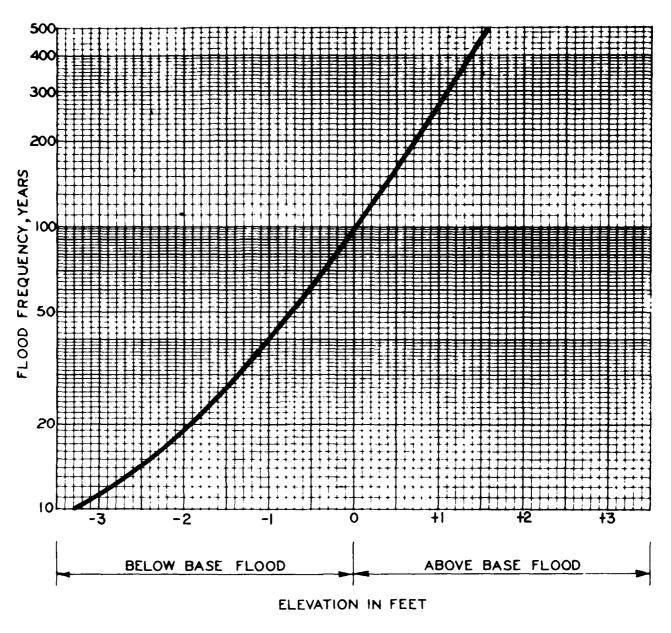
Depth		DE.	mo.	CLASS		-	
in reet	<u>"</u>	Br	FS	BFS	TN	тв	M
11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 16.5 17.0 17.5 18.0 18.5	F 84.3 84.4 84.4	82.0 82.0 82.0	70.7 73.6 75.8 77.6 79.0 80.2 81.3 82.0 82.7 83.1 83.5 83.9 84.0 84.0	71.9 74.6 77.0 78.7 79.9 80.8 81.6 82.1 82.6 83.2 83.4 83.6 83.7 83.8 83.9	81.0 81.5 82.0 82.3 82.6 82.8 82.9 83.0 83.0 83.0	79.2 80.1 80.9 81.5 81.8 81.8 81.8 81.8 81.8 81.8	M
19.0 19.5 20.0 20.5			84.0 84.0 84.0 84.0	84.0 84.0 84.0 84.0			
21.0			07.0	04.0			



- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER 020A
- 2 CURVE DEVELOPED FOR INDEX NUMBER | MILE 3.45

PLOTTING DATA				
FREQUENCY YEARS	FLOOD ELEVATION			
SPF				
500	794.5			
100	793.5			
25				
10	791.4			

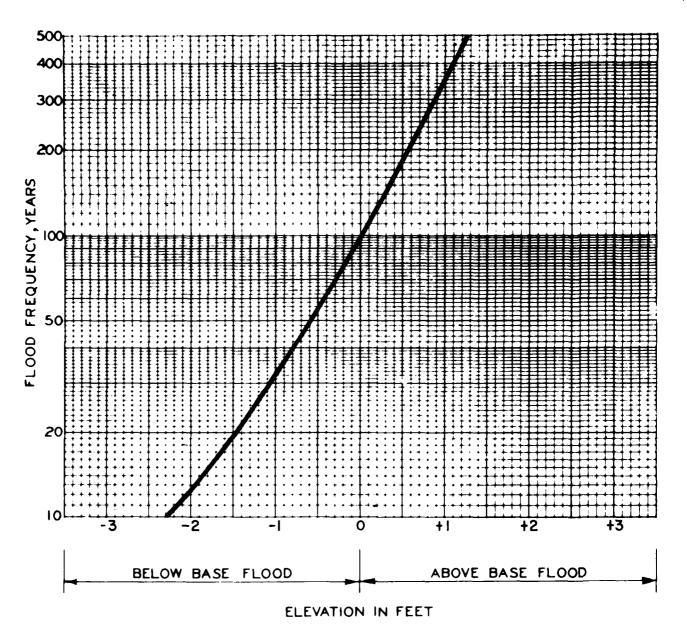
FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP



- I. CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 035A
- 2 CURVE DEVELOPED FOR INDEX NUMBER. 2 MILE 3.65

PLOTTING DATA				
FREQUENCY YEARS	FLOOD ELEVATION			
SPF				
500	801.6			
100	800.0			
25				
10	796.7			

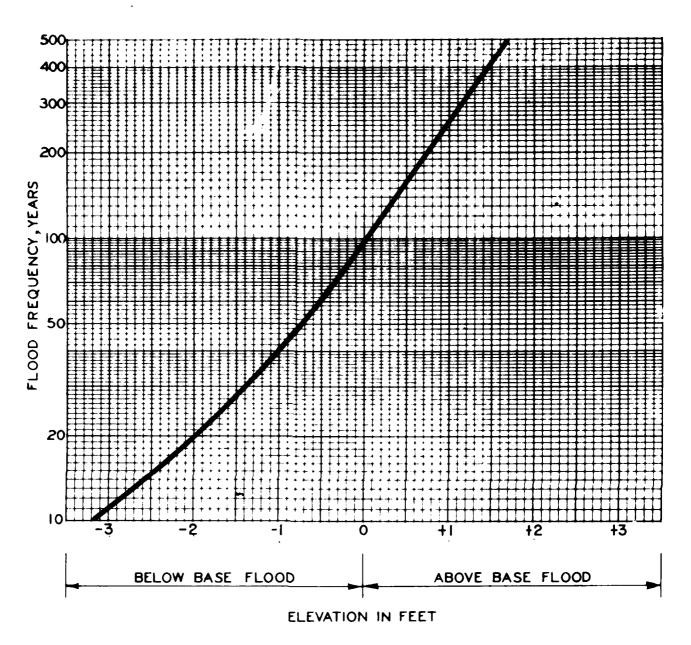
FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP



- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 025A
- 2 CURVE DEVELOPED FOR INDEX NUMBER 3 MILE 3.85

PLOTTING DATA				
FREQUENCY YEARS	FLOOD ELEVATION			
SPF				
500	806.7			
100	805.4			
25				
10	803.1			

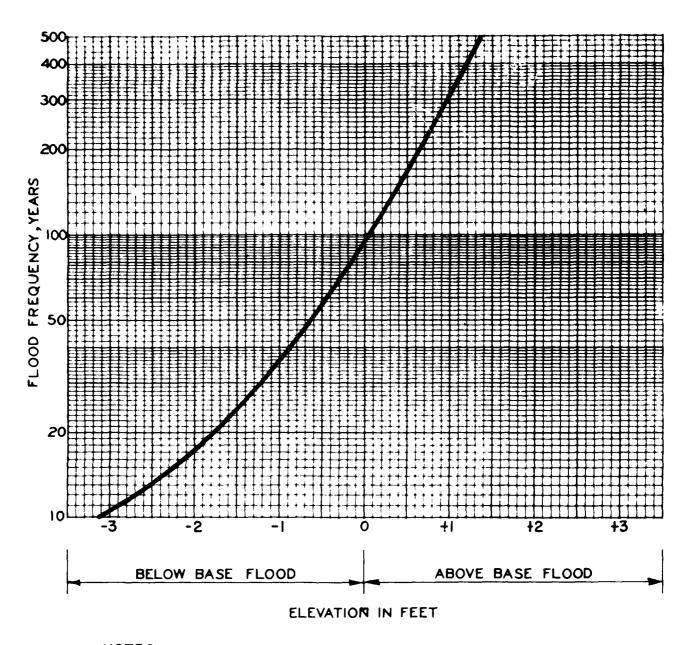
FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP



- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 0308
- 2 CURVE DEVELOPED FOR INDEX NUMBER.4 MILE 4.05

PLOTTING DATA					
FREQUENCY FLOOD YEARS ELEVATION					
SPF					
500	812.4				
100	810.7				
25					
10	807.5				

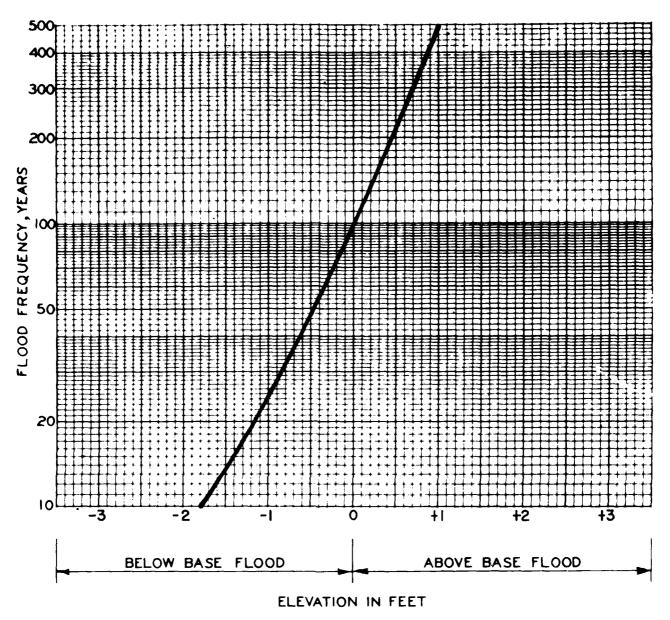
FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP



- I. CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 030A
- 2 CURVE DEVELOPED FOR INDEX NUMBER.5-MILE 4.50

PLOTTING DATA					
FREQUENCY FLOOD YEARS ELEVATION					
SPF					
500	824.4				
100	823.0				
25					
10	819.8				

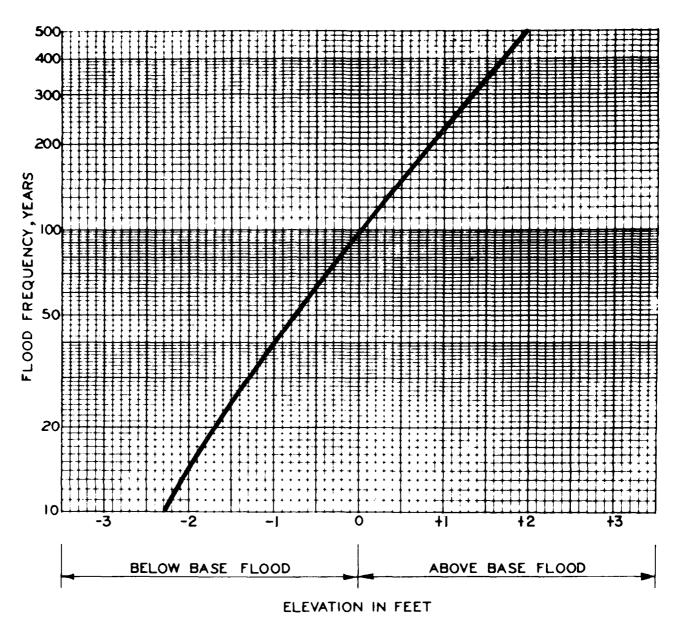
FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP



- I. CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 020A
 - 2 CURVE DEVELOPED FOR INDEX NUMBER 6-MILE 4.80

PLOTTING DATA	
FREQUENCY YEARS	FLOOD ELEVATION
SPF	
500	832.6
100	831.6
25	
10	829.8

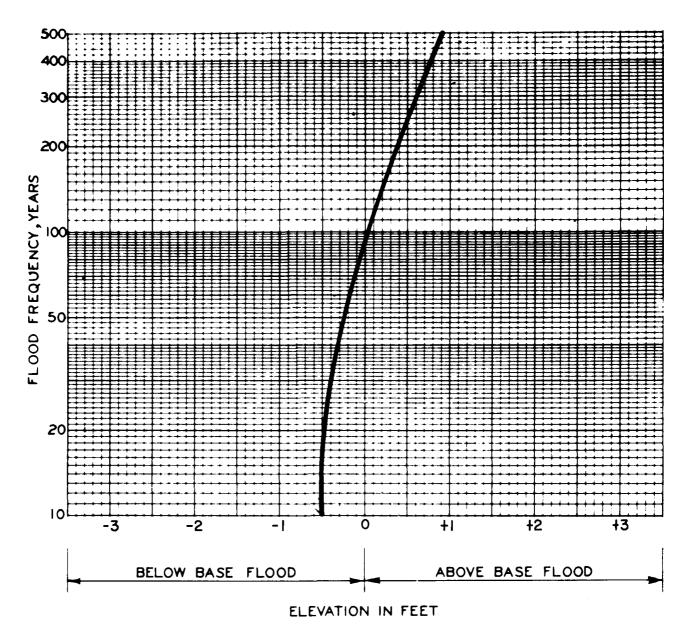
FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP



- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER 025C
- 2 CURVE DEVELOPED FOR INDEX NUMBER 7-MILE 5.10

PLOTTING DATA	
FREQUENCY YEARS	FLOOD ELEVATION
SPF	
500	839.9
100	837.9
25	
10	835.6

FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
MILL CREEK
ELEVATION FREQUENCY
RELATIONSHIP

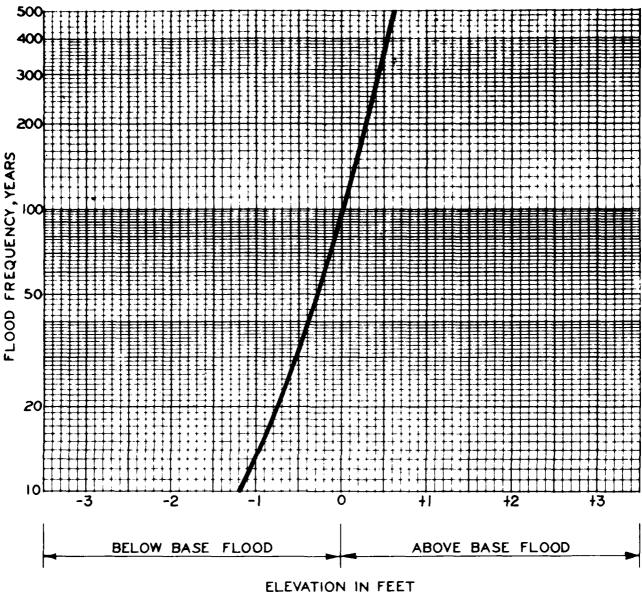


- I. CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 005D
- 2. CURVE DEVELOPED FOR INDEX NUMBER. I-400 FEET

PLOTTING DATA		
FREQUENCY YEARS	FLOOD ELEVATION	
SPF		
500	818.0	
100	817.1	
25		
10	816.6	

FLOOD INSURANCE STUDY GARFIELD HEIGHTS, OHIO WOLF CREEK

ELEVATION FREQUENCY RELATIONSHIP



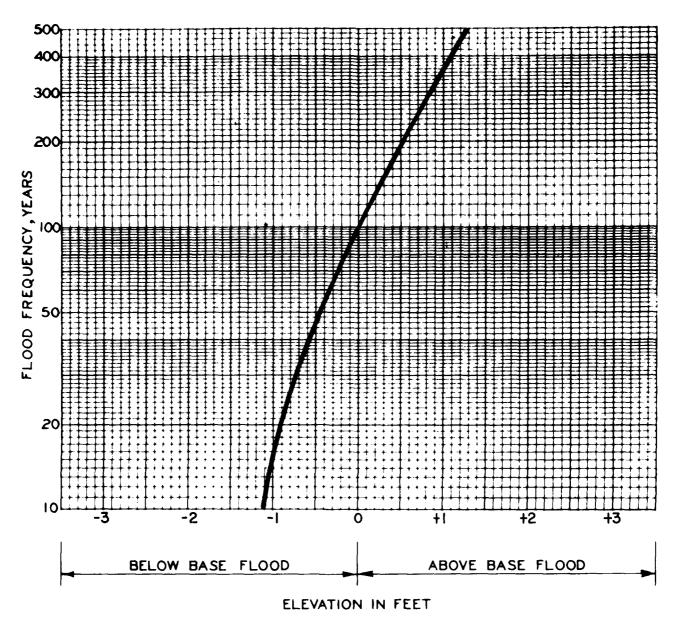
- I. CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. OIOB
- 2 CURVE DEVELOPED FOR INDEX NUMBER. 2-1400 FEET

PLOTTING DATA	
FREQUENCY YEARS	FLOOD ELEVATION
SPF	
500	830.1
100	829.5
25	,
10	828.3

FLOOD INSURANCE STUDY GARFIELD HEIGHTS, OHIO WOLF CREEK

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, US ARMY BUFFALO, NEW YORK, DISTRICT PREPARED FOR FEDERAL INSURANCE ADMINISTRATION **MAY 1971**

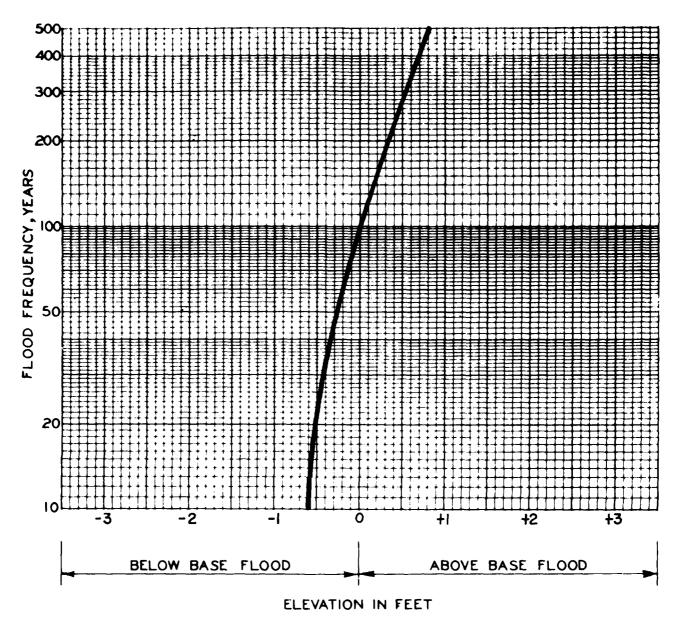


- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. OIOD
- 2 CURVE DEVELOPED FOR INDEX NUMBER 3-2800 FEET

PLOTTING DATA	
FREQUENCY YEARS	FLOOD ELEVATION
SPF	
500	851.8
100	850.5
25	
10	849.4

FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
WOLF CREEK
ELEVATION FREQUENCY
RELATIONSHIP

CORPS OF ENGINEERS, U.S. ARMY
BUFFALO, NEW YORK, DISTRICT
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
MAY 1971

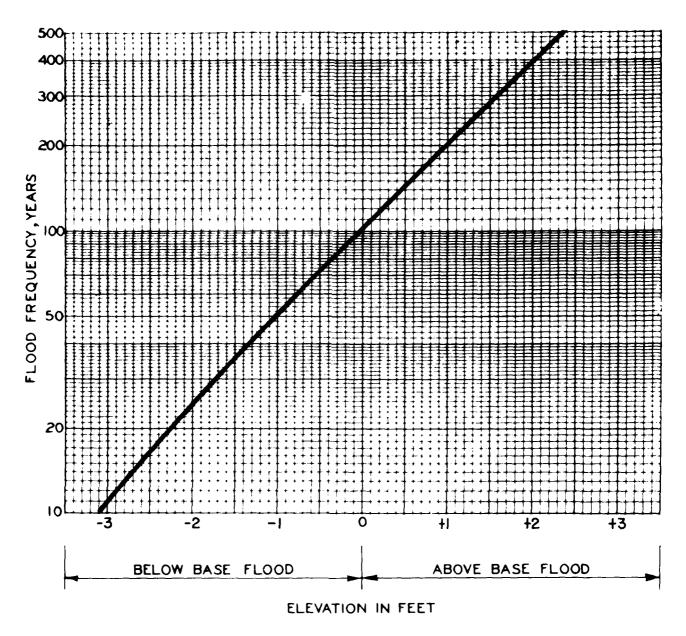


- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER. 0050
- 2 CURVE DEVELOPED FOR INDEX NUMBER 4-3800 FEET

PLOTTING DATA	
FREQUENCY YEARS	FLOOD ELEVATION
SPF	
500	863.0
100	861.2
25	
10	859.6

FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
WOLF CREEK
ELEVATION FREQUENCY
RELATIONSHIP

CORPS OF ENGINEERS, U.S. ARMY
BUFFALO, NEW YORK, DISTRICT
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
MAY 1971

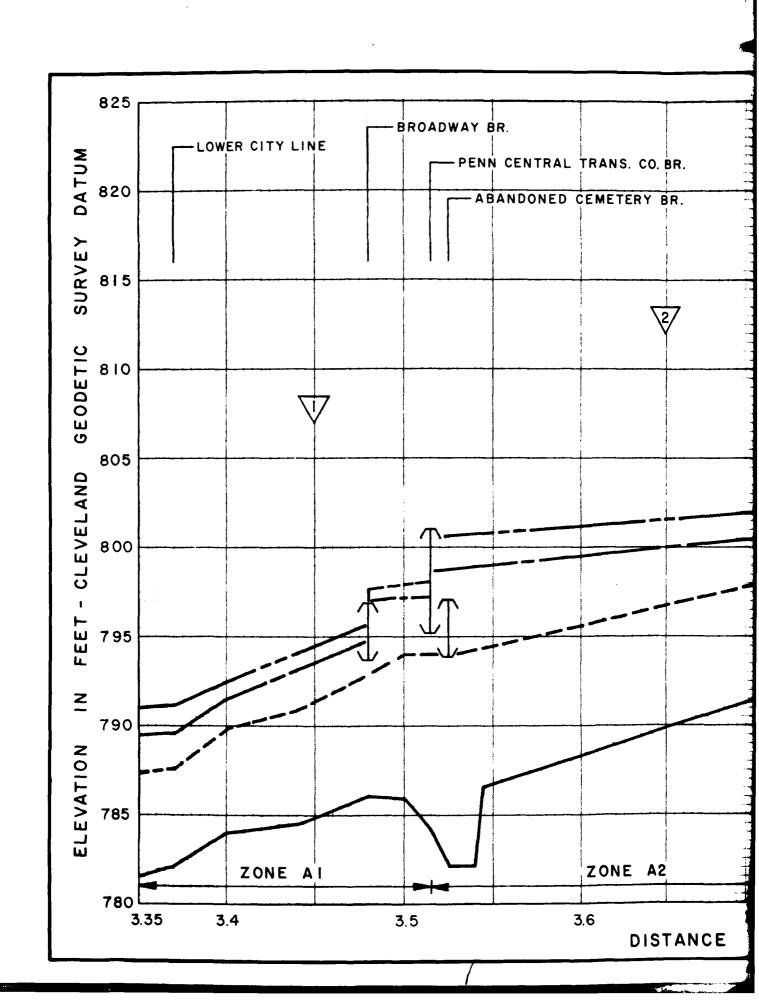


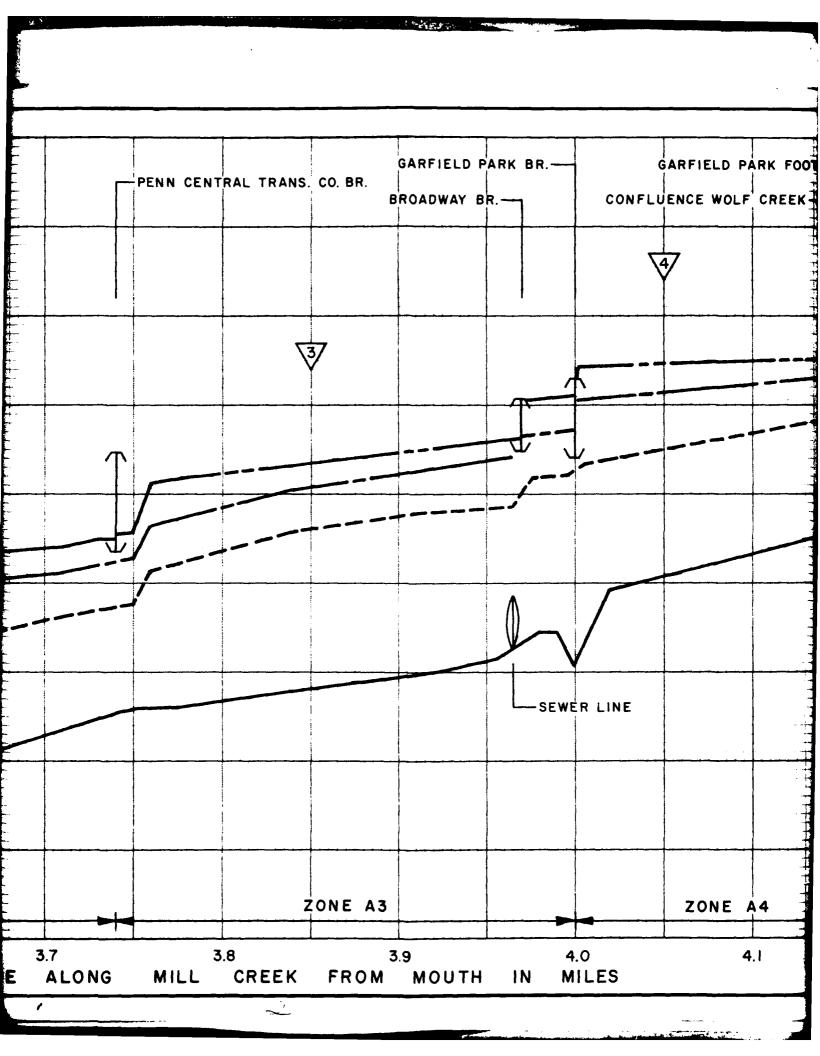
- I CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NUMBER . 030C
- 2 CURVE DEVELOPED FOR INDEX NUMBER 5-4600 FEET

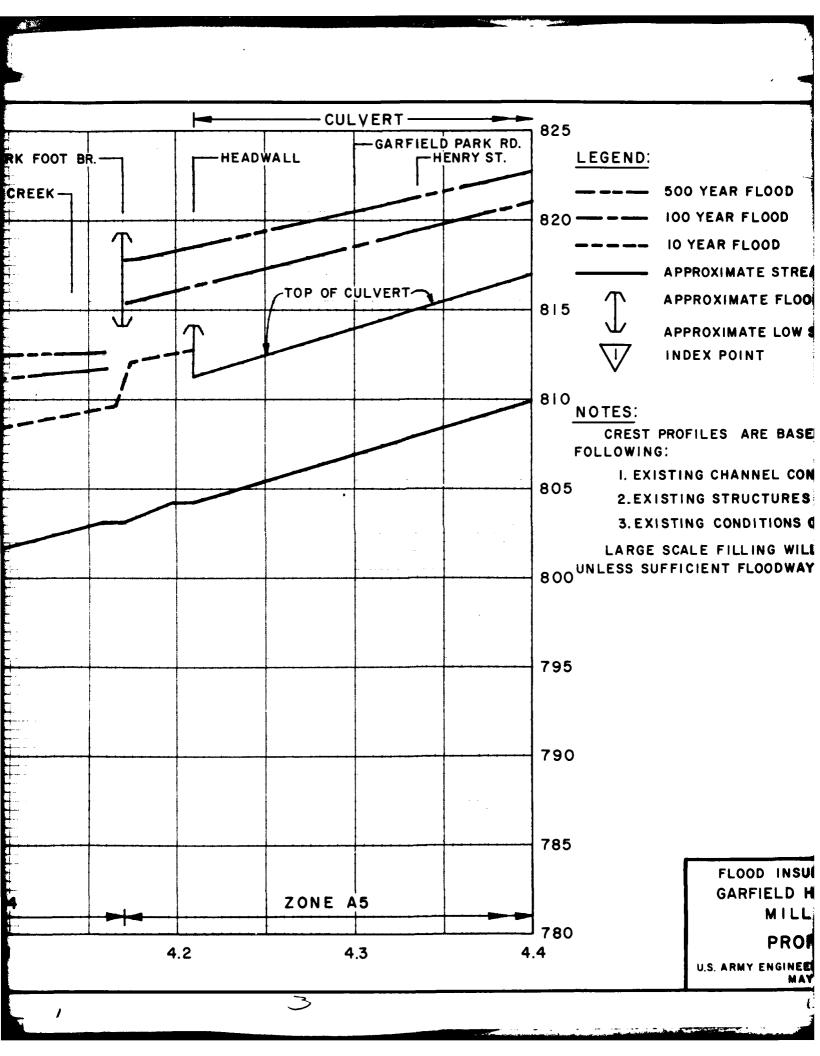
PLOTTING DATA	
FREQUENCY	FLOOD ELEVATION
SPF	
500	871.2
100	868.8
25	
10	865.7

FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO
WOLF CREEK
ELEVATION FREQUENCY
RELATIONSHIP

CORPS OF ENGINEERS, U.S. ARMY
BUFFALO, NEW YORK, DISTRICT
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
MAY 1971







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E STREAM BED

E FLOOR ELEVATION

E LOW STEEL ELEVATION

RE BASED ON THE

NEL CONDITIONS Ctures

ITIONS OF DEVELOPMENT.

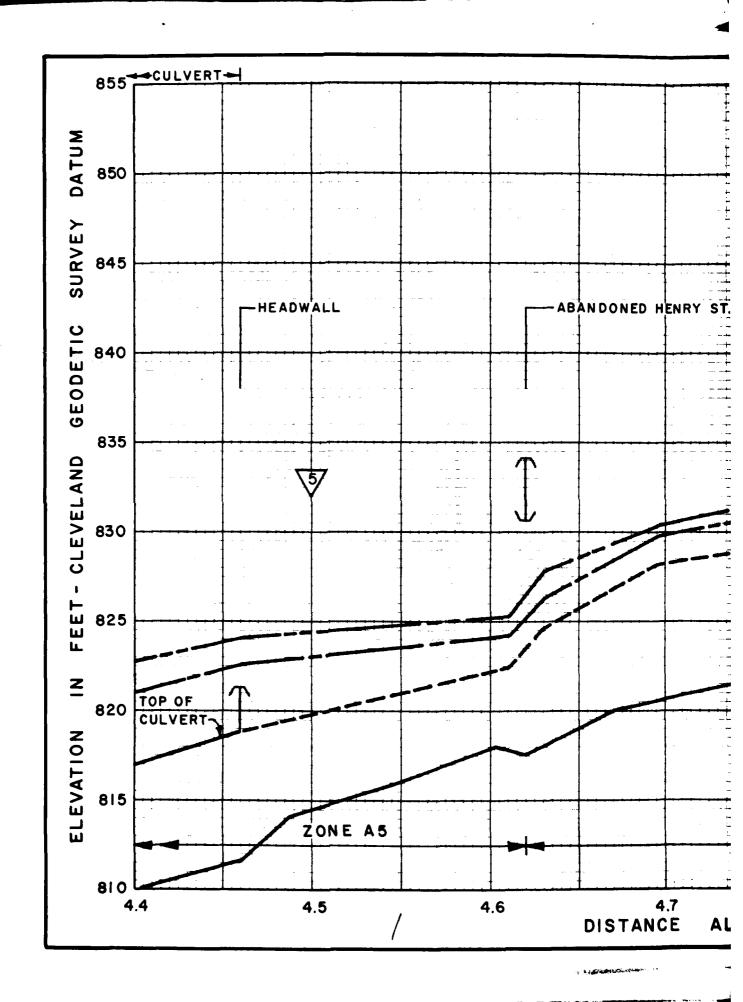
NG WILL RAISE PROFILES OODWAY IS PROVIDED.

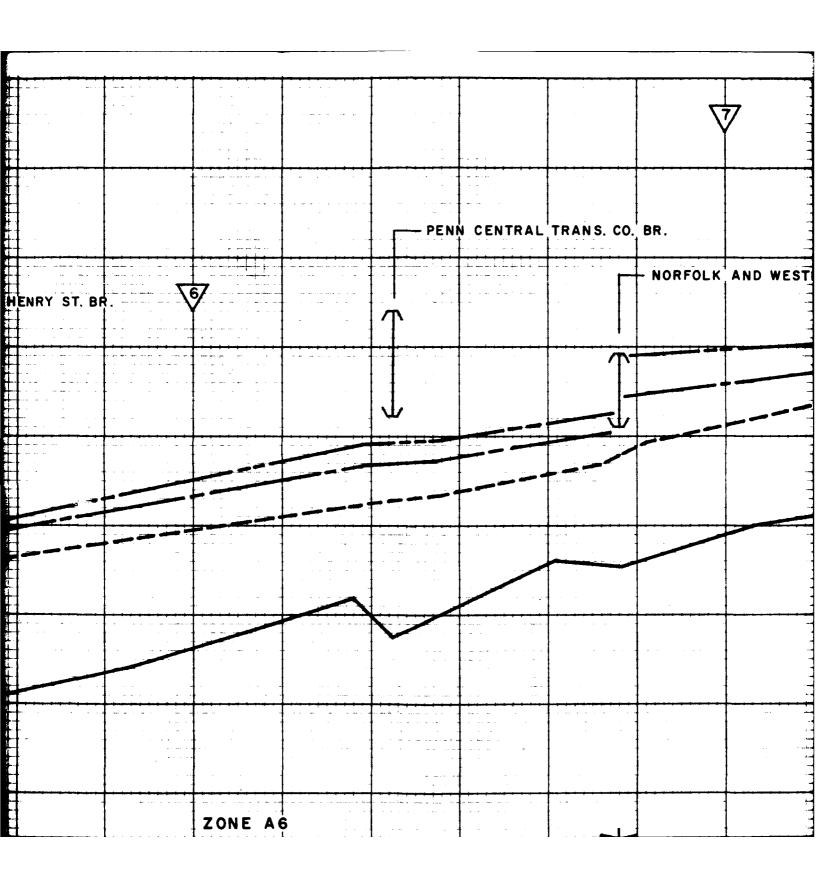
D INSURANCE STUDY FIELD HEIGHTS, OHIO MILL CREEK

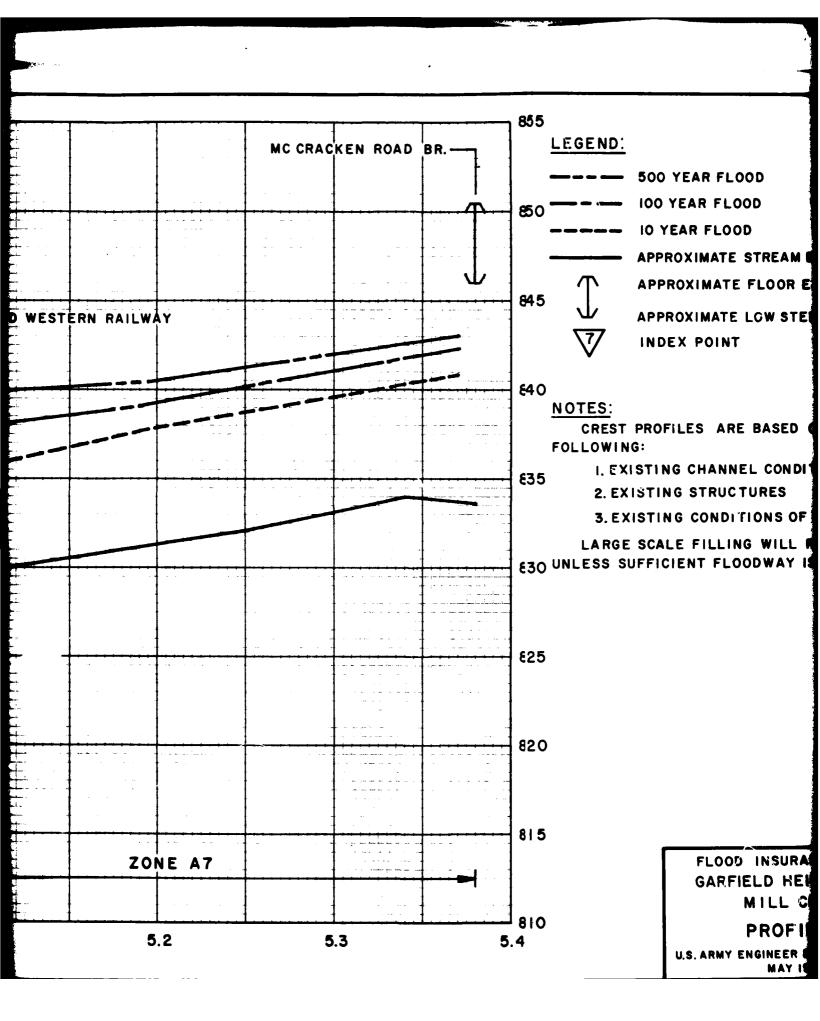
PROFILES

ENGINEER DISTRICT, BUFFALO MAY 1971

A PLATE I







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D

TREAM BED
FLOOR ELEVATION
OW STEEL ELEVATION

BASED ON THE

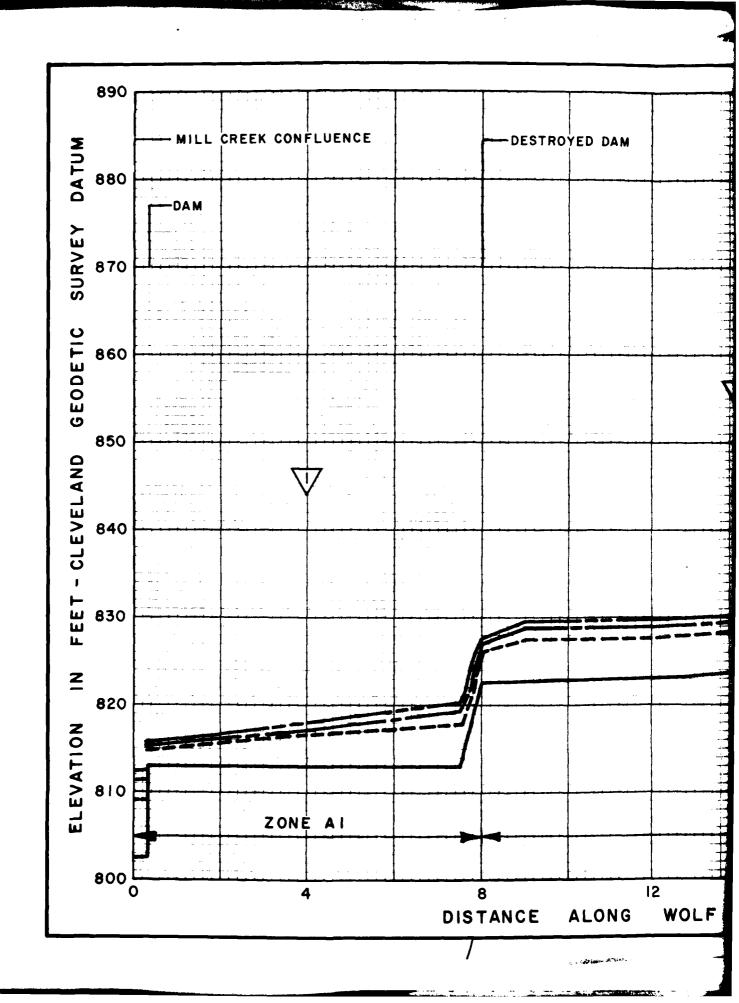
L CONDITIONS
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DWAY IS PROVIDED.

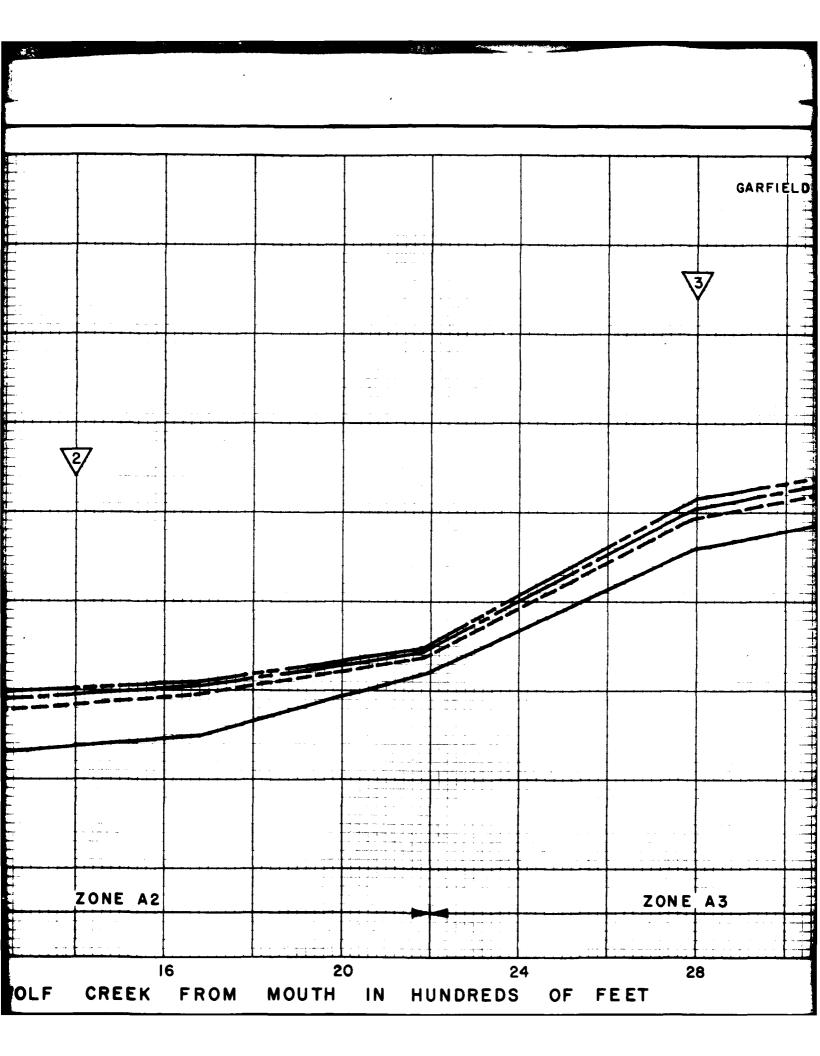
NSURANCE STUDY
D HEIGHTS, OHIO

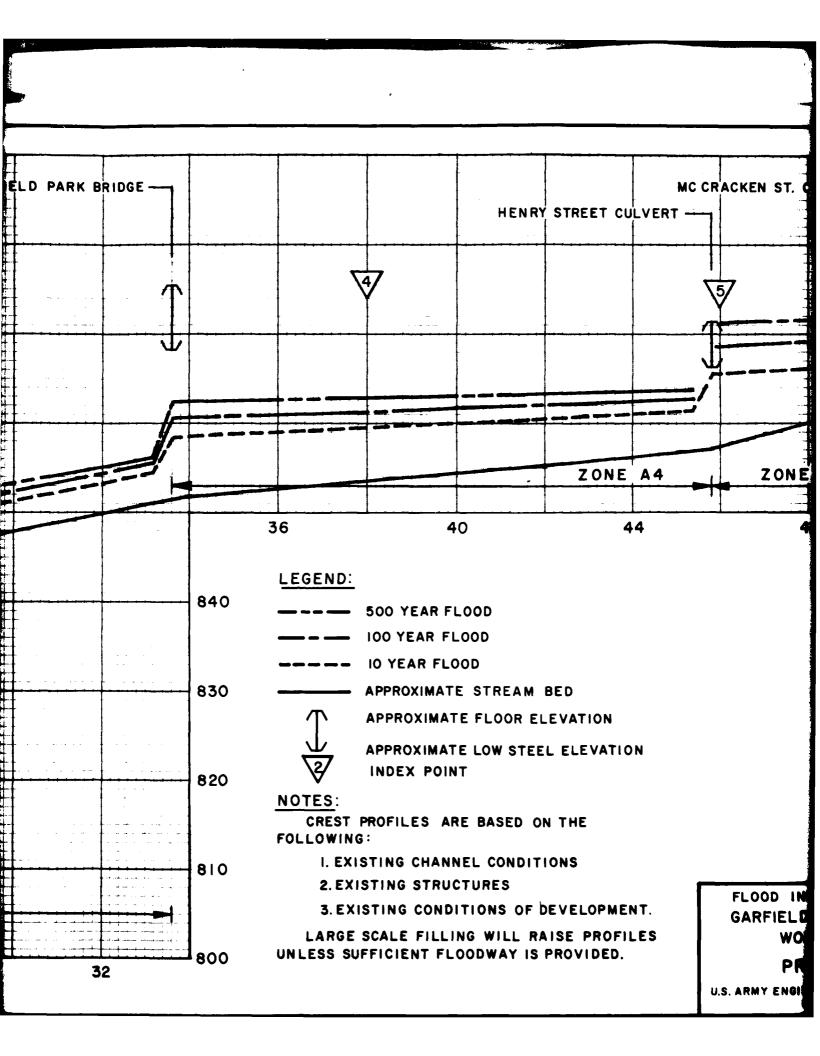
ROFILES

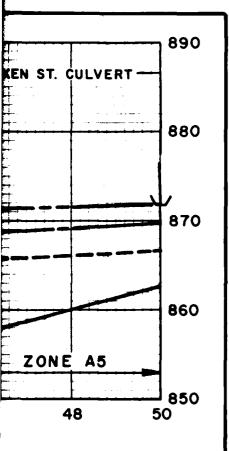
NEER DISTRICT, BUFFALO May 1971

4 PLATE 2







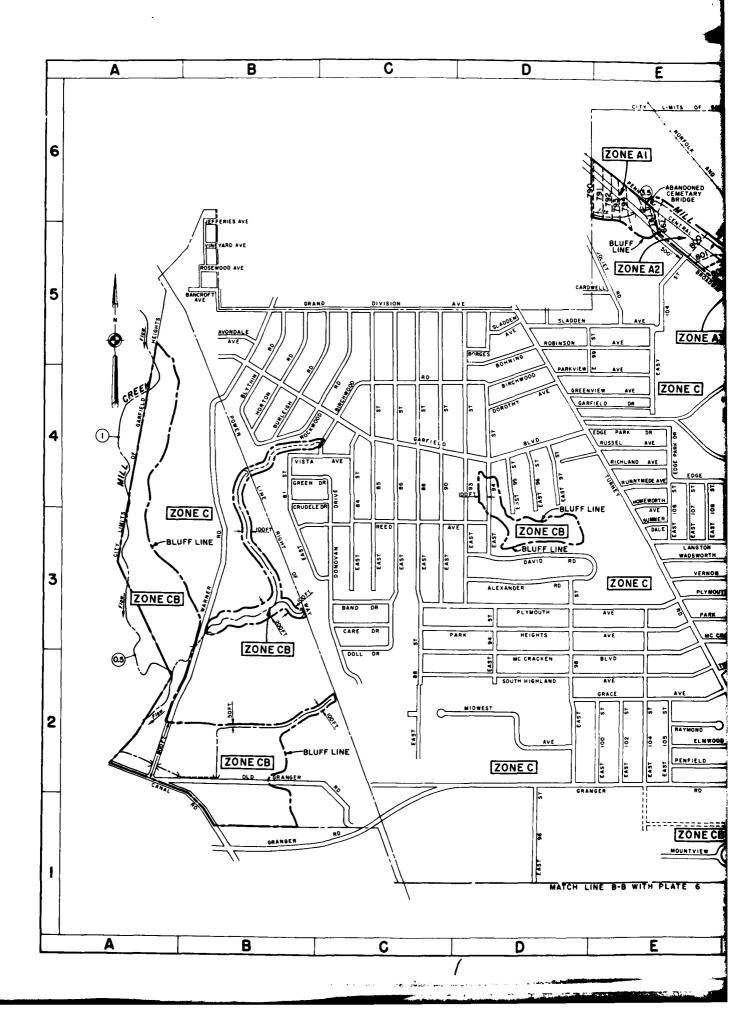


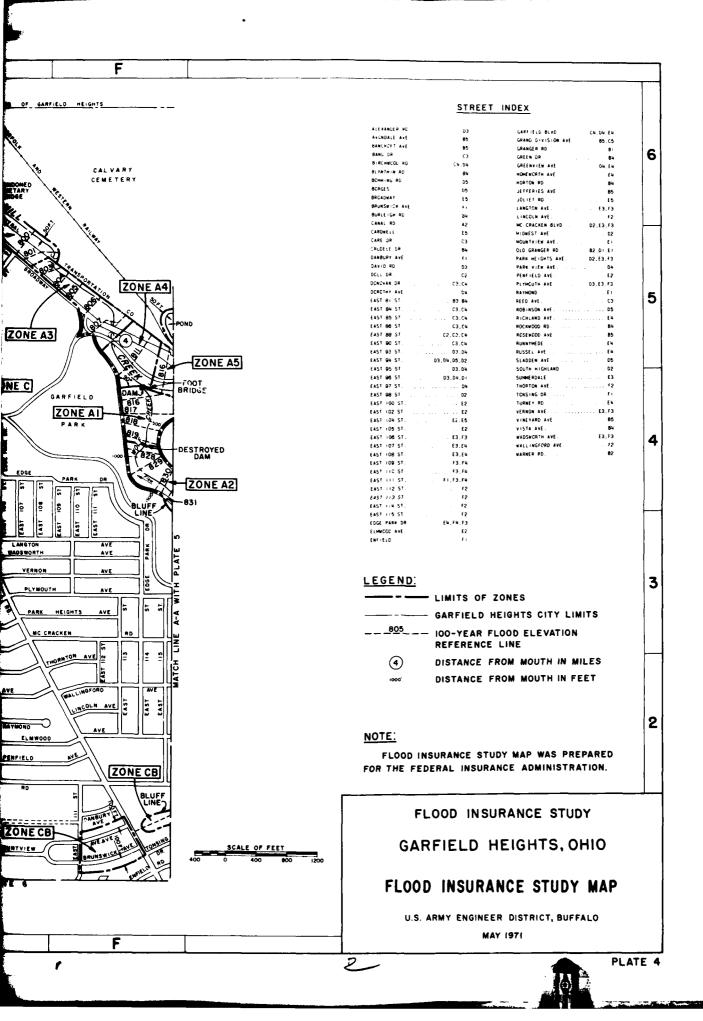
LOOD INSURANCE STUDY ARFIELD HEIGHTS,OHIO WOLF CREEK

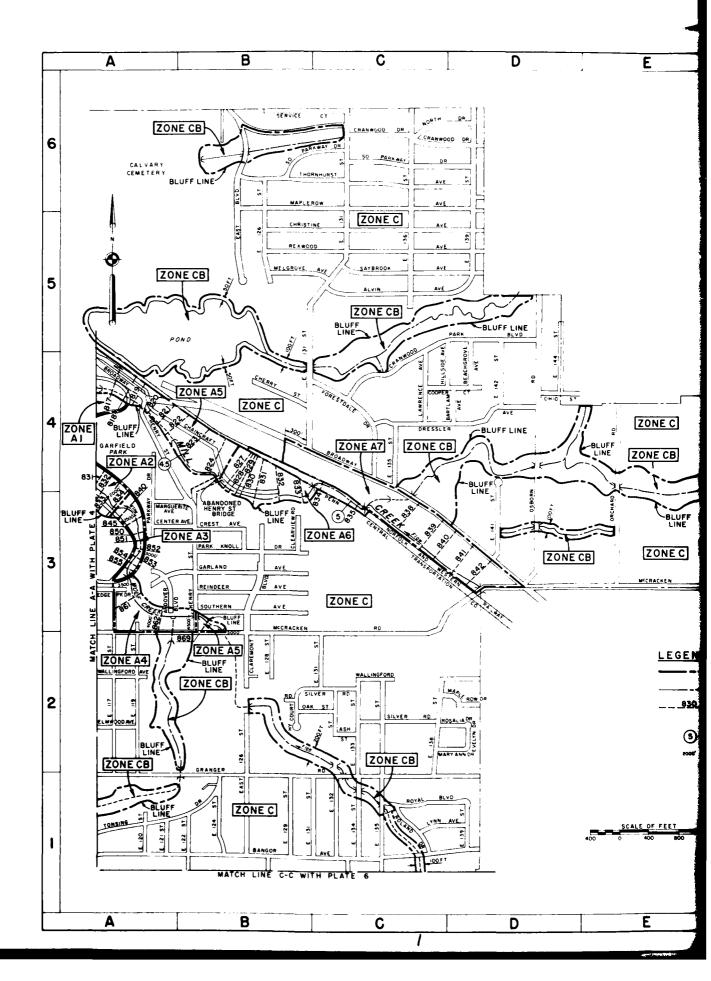
PROFILES

RMY ENGINEER DISTRICT, BUFFALO MAY 1971

PLATE 3



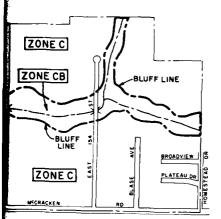




E F

STREET INDEX

Ave N Ave Ca	FORESTOALE DR
ANDONER BLAD AS	GARLAND AVE
ASH 51 G	GHANGEN ND
BANUSH AND B.	MEMBER 51
BAK', aw avt Du	MISISIDE AVE
#EACHGROVE AVE DW	HOMESTEAD DE
Brast ant 19	HT COURT
BHGAGE ER F3	LAWRENCE AVE
BRCAGEAT AL CE	LIMB AVE
SENTER AVE AS	MAPLE ROW DR
CHAINCRAFT ST AN BU	MAPLEROW AVE
IMERRY ST Bu	MARGUER TE AVE
THRISTING AVE AS CO	MARY AND DR
CLEARVIEW RG 83	
CUPER DR CH	
SRANWOOD DR CO	
CRANNCOG PARK BLVD CH 05	
CREST AVE . R3	
DRESSLER AVE C4	
OR: YEWAY . Pu	*****
E#51 8LVD 95	
EAUT 117 51 42	PARK MECLL DR
EAST HIS ST AZ	PARKWAT OR
EAST (20 ST A)	PLATEAL DP
EAST -21 ST	REINDEER AVE
EAS55 2; BI	REXWOCD AVE
EAST 124 ST 8-	AGLAND DR
EAST 126 ST 82 85	
£451 :28 5" 62	RCTAL BLVG
EAST -29 ST	ST (LAREMONT
EAST (3) ST BN.C) C2.55	SAYBROOK AVE
EAST 132 ST	SERV-CE CT
EAST 133 ST 22	SILVER RD
EAST 124 ST CI	SOUTHERN AVE
EAST -35 ST 01 CH	SCUTH PARKWAT DR
EAST 136 ST C5	THORNHURST AVE
EAST 138 ST C2	TONSING OP
EAST 139 ST D5	MACLINGFORD AVE
EAST 14/ \$7	
EAST INS ST DH	
EAST .44 ST Du	
EAST 154 ST £3	
EDGE PARK DR . A3	
ELMEGGD AVE A2	
EVELYN DR D2	



LEGEND:

CALE OF FEET

LIMITS OF ZONES

--- GARFIELD HEIGHTS CITY LIMITS

-830 -- 100-YEAR FLOOD ELEVATION

REFERENCE LINE

5 DISTANCE FROM MOUTH IN MILES

DISTANCE FROM MOUTH IN FEET

NOTE:

FLOOD INSURANCE STUDY MAP WAS PREPARED FOR THE FEDERAL INSURANCE ADMINISTRATION.

FLOOD INSURANCE STUDY
GARFIELD HEIGHTS, OHIO

FLOOD INSURANCE STUDY MAP

U.S. ARMY ENGINEER DISTRICT, BUFFALO
MAY 1971

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2

PLATE BOY

3

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